

#19/c DMT 2-19-03

PATENT
Attorney Docket 044574-5061

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

AMENDMENT AND RESPONSE UNDER 37 C.F.R. 1.114

This Amendment is filed in response to the Advisory Action dated September 5, 2002 (Paper No. 17).

Please amend this application as follows:

In the claims:

Please replace claims 27, 43 and 44 with the following amended claims 27, 43 and 44:

- 27. (Amended) An isolated nucleic acid molecule that encodes the amino acid sequence of a *Drosophila* Odorant Receptor protein or fragment thereof, wherein the nucleic acid molecule comprises:
- (i) nucleotides of SEQ ID NO: 31 which encode the amino acids which comprise the third extracellular domain;
- (ii) nucleotides of SEQ ID NO: 31 which encode the amino acids which comprise the fourth extracellular domain; and
- (iii) nucleotides of SEQ ID NO: 31 which encode the amino acids which comprise the fourth intracellular domain; wherein the nucleic acid molecule encodes a protein or fragment thereof which causes the firing

of an olfactory neuron when stimulated.

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